

Product datasheet for **TA355393**

P4HB Mouse Monoclonal Antibody [Clone ID: 9C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9C7
Applications:	WB
Reactivity:	Human
Host:	Mouse
Isotype:	IgM, kappa
Clonality:	Monoclonal
Specificity:	Expected reactivity: Human
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	55
Gene Name:	prolyl 4-hydroxylase subunit beta
Database Link:	NP_000909 Entrez Gene 5034 Human Q96C96



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Background:	P4HB is the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex.
Synonyms:	DSI; ERBA2L; GIT; P4Hbeta; p55; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB
Protein Families:	Druggable Genome